

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-17 (cancelled)

Claim 18. (New) A deflectable thermometer probe comprising:

a bendable probe body;

a tip member secured to the bendable probe body and having a thermal contact surface;

a thermal sensor mounted on the inside of the thermal contact surface of the tip member, for sensing the temperature of the thermal contact surface and producing a temperature signal;

a set of lead wires coupled to the thermal sensor for transmission of the temperature signal; and

a deflectable member having a main portion disposed in the bendable probe body, wherein deformation of the main portion occurs when the bendable probe body is subjected to a force, and the deformation cannot be undone by a return force from the bendable probe body when the applied force is removed, thereby the bendable probe body is sustained in a bent form;

wherein a protecting head is formed at a front end of the deflectable member to avoid the deflectable member cutting off the lead wires.

Claim 19. (New) The probe as recited in claim 18 wherein the main portion of the deflectable member is constructed by a deflectable metal wire.

Claim 20. (New) The thermometer as recited in claim 19 wherein the deflectable metal wire is made of copper.

Claim 21. (New) The probe as recited in claim 18 wherein the bendable probe body includes a hollow pipe and the main portion of the deflectable member is disposed in the hollow pipe.

Claim 22. (New) The probe as recited in claim 21 wherein the hollow pipe has at least a portion with a diameter greater than that of the main portion of the deflectable member.

Claim 23. (New) The probe as recited in claim 21 wherein the hollow pipe provides a space for the deformation of the main portion of the deflectable member.

Claim 24. (New) The probe as recited in claim 21 wherein the lead wires run through the hollow pipe in the bendable probe body.

Claim 25. (New) The probe as recited in claim 18 wherein the tip member is hollow.

Claim 26. (New) A deflectable thermometer probe comprising:

- a bendable probe body;

- a tip member secured to the bendable probe body and having a thermal contact surface;

- a thermal sensor mounted on the inside of the thermal contact surface of the tip member, for sensing the temperature of the thermal contact surface and producing a temperature signal;

- a set of lead wires coupled to the thermal sensor for transmission of the temperature signal;

and

- a deflectable member having a main portion disposed in the bendable probe body, wherein deformation of the main portion occurs when the bendable probe body is subjected to a force, and the deformation cannot be undone by a return force from the bendable probe body when the applied force is removed, thereby the bendable probe body is sustained in a bent form;

- wherein a groove is defined in the bendable probe body's end portion and a corresponding hook formed at a back end of the deflectable member is embedded in the groove.

Claim 27. (New) The probe as recited in claim 26 wherein the main portion of the deflectable member is constructed by a deflectable metal wire.

Claim 28. (New) The thermometer as recited in claim 27 wherein the deflectable metal wire is made of copper.

Claim 29. (New) The probe as recited in claim 26 wherein the bendable probe body includes a hollow pipe and the main portion of the deflectable member is disposed in the hollow pipe.

Claim 30. (New) The probe as recited in claim 29 wherein the hollow pipe has at least a portion with a diameter greater than that of the main portion of the deflectable member.

Claim 31. (New) The probe as recited in claim 29 wherein the hollow pipe provides a space for the deformation of the main portion of the deflectable member.

Claim 32. (New) The probe as recited in claim 29 wherein the lead wires run through the hollow pipe in the bendable probe body.

Claim 33. (New) The probe as recited in claim 26 wherein the tip member is hollow.

Claim 34. (New) A deflectable thermometer probe comprising:

- a bendable probe body including a hollow pipe;

- a tip member with a hollow cavity, secured to the bendable probe body and having a thermal contact surface;

- a thermal sensor mounted on the inside of the thermal contact surface of the tip member, for sensing the temperature of the thermal contact surface and producing a temperature signal;

- a set of lead wires coupled to the thermal sensor for transmission of the temperature signal;

and

a deflectable member having a main portion disposed in the hollow pipe of the bendable probe body, wherein deformation of the main portion occurs when the bendable probe body is subjected to a force, and the deformation cannot be undone by a return force from the bendable probe body when the applied force is removed, thereby the bendable probe body is sustained in a bent form;

wherein a space formed between the hollow pipe and the main portion of the deflectable member for deformation of the main portion to prevent the deflectable member being pushed into the hollow cavity and thereby avoid the lead wires being easily cut off.